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United States Department of Agriculture.

WASHINGTON, D. C., *May 31, 1917.*

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1917.]

READ CAREFULLY BEFORE ORDERING.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

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SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete postoffice address (street number or rural route number as the case may be) is attached.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞ NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Some Common Edible and Poisonous Mushrooms. By Flora W. Patterson, Mycologist, and Vera K. Charles, Assistant Mycologist, Office of Pathological Collections. Pp. 24, figs. 22. Contribution from the Bureau of Plant Industry. March, 1917. **(Farmers' Bulletin 796.)**

For general distribution.

Standard Varieties of Chickens. 1. The American Class. By Rob R. Slocum, Animal Husbandry Division. Pp. 19, figs. 13. Contribution from the Bureau of Animal Industry. April, 1917. **(Farmers' Bulletin 806.)**

Suitable for general distribution.

Marketing Live Stock in the South. Suggestions for Improvement. By S. W. Doty, Assistant in Marketing Live Stock and Meats. Pp. 16. Contribution from the Office of Markets and Rural Organization. Apr., 1917. **(Farmers' Bulletin 809.)**

The purpose of this bulletin is to place before southern farmers who produce stock in small lots and who are experiencing difficulty in marketing their live stock the more important local marketing plans which have been found successful in certain communities and which are practicable under southern conditions.

The Production of Baby Beef. By S. H. Ray, Animal Husbandry Division. Pp. 22, figs. 8. Contribution from the Bureau of Animal Industry. April, 1917. **(Farmers' Bulletin 811.)**

For general distribution.

Minor Articles of Farm Equipment. By H. N. Humphrey, Scientific Assistant, and A. P. Yerkes, Assistant Agriculturist. Pp. 15. Contribution from the Office of Farm Management. May, 1917. **(Farmers' Bulletin 816.)**

Gives the number and cost of all minor articles of equipment necessary for a farm of the general type.

Sugar-Beet Sirup. By C. O. Townsend, Pathologist in Charge of Sugar-Beet Investigations, Bureau of Plant Industry, and H. C. Gore, Chemist in Charge of Fruit and Vegetable Utilization Laboratory, Bureau of Chemistry. Pp. 13, figs. 9. Contribution from the Bureau of Plant Industry and the Bureau of Chemistry. May, 1917. **(Farmers' Bulletin 823.)**

Tells how to grow sugar beets in the garden and describes a simple process of making from them a nutritious table sirup. Suitable for general distribution.

DEPARTMENT BULLETINS—TECHNICAL.

☞ The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Public Road Mileage and Revenues in the Central, Mountain, and Pacific States, 1914. Prepared jointly by the Division of Road Economics of the Office of Public Roads and Rural Engineering and State Collaborator. Pp. 56+i-lxxv. Contribution from the Office of Public Roads and Rural Engineering. May 10, 1917. **(Department Bulletin 389.)** Price. 15 cents.

A compilation showing mileage of improved and unimproved roads; sources and amounts of road revenues; bonds issued and outstanding; and a description of the systems of road administration, fiscal management, and other factors affecting road improvement in each state.

Reforestation on the National Forests. By C. R. Tillotson, Forest Examiner. Pp. 63, pls. 11, figs. 5. Contribution from the Forest Service. (Professional Paper.) May 28, 1917. **(Department Bulletin 475.)** Price, 20 cents.

This bulletin supersedes Forest Service Bulletin 98, "Reforestation on the National Forests," by W. T. Cox, on which the material relating to seed collecting and direct seeding is largely based.

The Status and Value of Farm Woodlots in the Eastern United States By E. H. Frothingham, Forest Examiner. Pp. 44, figs. 2, map. Contribution from the Forest Service. May 11, 1917. **(Department Bulletin 481.)** Price, 15 cents.

Of interest to owners of farm woodlots.

The Theory of Correlation as Applied to Farm-Survey Data on Fattening Baby Beef. By H. R. Tolley, Scientific Assistant. Pp. 15. Contribution from the Office of Farm Management. (Professional Paper.) May 23, 1917. **(Department Bulletin 504.)** Price, 5 cents.

An analysis of the data on fattening baby beef animals, showing the factors most important in determining the profit.

Timber Storage Conditions in the Eastern and Southern States with Reference to Decay Problems. By C. J. Humphrey, Pathologist, Office of Investigations in Forest Pathology. Pp. 43, pls. 10, figs. 41. Contribution from the Bureau of Plant Industry. (Professional Paper.) May 17, 1917. **(Department Bulletin 510.)** Price, 20 cents.

Describes causes of decay in stored timber and suggests methods of prevention.

Detection of Lime Used as a Neutralizer in Dairy Products. By H. J. Wichmann, Assistant Chemist, Food and Drug Inspection Laboratory, Denver, Colo. Pp. 23. Contribution from the Bureau of Chemistry. (Professional Paper.) May 7, 1917. **(Department Bulletin 524.)** Price, 5 cents.

This bulletin will be useful to officials of State dairy and food departments.

The Organization and Management of a Farmers' Mutual Fire Insurance Company. By V. N. Valgren, Investigator in Agricultural Insurance. Pp. 34. Contribution from the Office of Markets and Rural Organization. May 8, 1917. **(Department Bulletin 530.)** Price, 5 cents.

This bulletin is intended mainly for two classes of readers—those contemplating the organization of a farmers' mutual fire insurance company and those desiring to improve the methods and practices of an existing company. It aims to outline principles and methods developed by successful companies of this kind and to set forth the advanced ideas held by their officers, rather than to discuss the subject theoretically.

Rhizopus Rot of Strawberries in Transit. By Neil E. Stevens, Pathologist, and R. B. Wilcox, Scientific Assistant, Fruit Disease Investigations. Pp. 22, fig. 1. Contribution from the Bureau of Plant Industry. (Professional Paper.) May 28, 1917. **(Department Bulletin 531.)** Price. 5 cents.

Is of interest to botanists, pathologists, and strawberry growers and shippers, especially in the Southern States.

The Business of Ten Dairy Farms in the Bluegrass Region of Kentucky. By J. H. Arnold, Agriculturist. Pp. 12. Contribution from the Office of Farm Management. May 24, 1917. **(Department Bulletin 548.)** Price, 5 cents.

Shows how these farms were organized and made profitable. Of interest to all farmers engaged in dairy farming.

Crossties Purchased and Treated in 1915. By Arthur M. McCreight, Office of Industrial Investigations. Pp. 8. Contribution from the Forest Service. May 5, 1917. **(Department Bulletin 549.)** Price, 5 cents.

A compilation of statistics on the number of crossties purchased in the United States during 1915 by the steam and electric roads, and electric light, heat, and power companies.

A Comparison of Several Classes of American Wheats and a Consideration of Some Factors Influencing Quality. By L. M. Thomas, Grain Supervisor, in Charge of Milling and Baking Investigations. Pp. 28, figs. 21. Contribution from the Bureau of Plant Industry and the Office of Markets and Rural Organization. May 18, 1917. **(Department Bulletin 557.)** Price, 5 cents.

Of interest to grain and food inspectors, and millers generally.

MISCELLANEOUS.

Yearbook of the U. S. Department of Agriculture, 1915. Pp. 783, pls. 95, figs. 74. Price, $1.00.

This Yearbook contains the annual report of the Secretary, 61 pages; 33 miscellaneous articles, 494 pages; an appendix, 188 pages; an index, 40 pages. Only 6 out of each 100 copies are allotted to this department, which number is insufficient to supply even its regular correspondents. Other applicants are therefore respectfully referred to their Representative or Delegate in Congress, as the other 94 per cent is allotted to that body. The Superintendent of Documents, Government Printing Office, Washington, D. C., has it for sale at $1.00 per copy.

Chemical Studies of the Efficiency of Legumes as Green Manures in Hawaii. By Alice R. Thompson, Assistant Chemist. Pp. 26. May 7, 1917. **(Bulletin 43, Hawaii Agricultural Experiment Station.)** Price, 5 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 9, No. 6. May 7, 1917. Contents: Composition of Citrus Leaves at Various Stages of Mottling. (if G–109.) By Charles A. Jensen.—Effects of Muscular Exercise and the Heat of the Sun on the Blood and Body Temperature of Normal Pigs. (hw. Minn. 14.) By C. C. Palmer. Pp. 157–182, figs. 2. Price, 10 cents.

Same, Vol. 9, No. 7. May 14, 1917. Contents: Relation of the Transformation and Distribution of Soil Nitrogen to the Nutrition of Citrus Plants. (hz G–110.) By L. G. McBeth. Pp. 183–252, figs. 19. Price, 15 cents.

Same, Vol. 9, No. 8. May 21, 1917. Contents: Effect of Decomposing Organic Matter on the Solubility of Certain Inorganic Constituents of the Soil. (ia G–111.) By Charles A. Jensen.—Xylaria Rootrot of Apple. (ii N. C.–5.) By Frederick A. Wolf and Richard O. Cromwell. Pp. 253–276, pl. 1, figs. 2. Price, 10 cents.

Same, Vol. 9, No. 9. May 28, 1917. Contents: A Comparison of the Hourly Evaporation Rate of Atmometers and Free Water Surfaces with the Transspiration Rate of Medicago sativa. (ic G–112.) By Lyman J. Briggs and H. L. Shantz.—Influence of Crop, Season, and Water on the Bacterial Activities of the Soil. (id Utah–6.) By J. E. Greaves, Robert Stewart, and C. T. Hirst. Pp. 277–341, pls. 2, figs. 5. Price, 20 cents.

☞ NOTE.—The Journal of Agricultural Research prints technical reports of original research, is issued weekly, and is distributed to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the Department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year (52 numbers).

Experiment Station Record. Vol. XXXVI, No. 6. Abstract Number. E. W. Allen, Ph. D., Editor. Pp. 501–600. Price, 15 cents.

Same, Vol. XXXV, Index Number. Pp. xxiii+901–995. Price, 15 cents.

☞ NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 3, No. 5, May, 1917. Pp. 37–44. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

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SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞ These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Chemistry. Supplement No. 24. [N. J. 4651–4700.] Pp. 203–259. May 4, 1917. Price, 10 cents.

Federal Horticultural Board. No. 38. March, 1917. Pp. 15–35. May 5, 1917. Price, 5 cents.

Insecticide and Fungicide Board. No. 15. Pp. 193–226. May 28, 1917. Price, 5 cents.

SOIL SURVEYS.

☞ All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of New Castle County, Delaware. By T. M. Morrison, of the U. S. Department of Agriculture, and William B. Seward and Oliver I. Snapp, of the Delaware Agricultural Experiment Station. Pp. 34, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Cowley County, Kansas. By E. C. Hall, R. H. Hall, and B. W. Tilman. Pp. 46, pls. 2, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Chickasaw County, Mississippi. By E. M. Jones, of the Mississippi Geological Survey, and C. S. Waldrop, of the U. S. Department of Agriculture. Pp. 38, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Richardson County, Nebraska. By A. H. Meyer, of the U. S. Department of Agriculture, and Paul H. Stewart and C. W. Watson, of the Nebraska Soil Survey. Pp. 36, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞ Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 45, No. 2, February, 1917. [April 30, 1917.] Pp. 47–90, charts 9, figs. 9. Price, 25 cents per copy, $2.50 per year.

Solar and sky radiation measurements during February, 1917. By H. H. Kimball.—The smoke cloud and the high haze of 1916. By H. H. Kimball.—Free-air data in the Hawaiian Islands, July, 1915. By Col. W. E. Ellis.—Weather Bureau exhibit at the First Pan-American Aeronautic Exposition. By W. R. Gregg.—Sound areas of the explosion at East London, January 19, 1917. By Charles Davison.—Parhelic circle with two pairs of parhelia at Fargo, N. Dak. By C. L. Meller.—Competency of wind in land depletion. By C. R. Keyes.—Formation of winter stratus; Depth of northeast wind. By Douglas Manning.

Monthly Weather Review. (For sale only.) Supplement No. 6. Pp. 61, figs. 7, charts, 34. May 7, 1917. Price, 25 cents.

Contents: Relative Humidities and Vapor Pressures over the United States, including a discussion of data from recording hair hygrometers. By Peter C. Day.

Title-page, Contents, and Index to Monthly Weather Review, Vol. 44, 1916. Pp. 15.

National Weather and Crop Bulletin, Nos. 7, 8, 9, 10, 11, May, 1917, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1917